

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US04/27964

A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : B60G 13/00, 15/00; F16F 11/00, 7/00, 9/00, 5/10, 9/34
 US CL : 188/282.1, 322.15, 322.22; 267/217, 226, 64.13

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 188/282.1, 322.15, 322.22; 267/217, 226, 64.13

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
EAST**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 5,662,046 A (WRIGHT ET AL) 02 SEP 1997 (02.09.1997) FIGURE 2	1-20
A	US 6,644,445 A (DODGE) 11 NOV 2003 (11.11.2003) FIGURE 5	1-20
A	US 6,668,986 A (MORADMAND ET AL) 30 DEC 2003 (30.12.2003) FIGURE 1	1-20
A	US 5,775,677 A (ENGLUND) 7 JUL 1998 (7.7.1988) FIGURE 2	1-20

☐ Further documents are listed in the continuation of Box C.☐ See patent family annex.

* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

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later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X"

document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

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Date of the actual completion of the international search

28 January 2005 (28.01.2005)

Name and mailing address of the ISA/US

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Commissioner for Patents

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